

# **Surface Coatings of Plastic Parts and Products**

**Table I**  
**Identification of Performance Standards**  
**Source Category: Surface Coatings of Plastic Parts and Products**

Regulated Component	Pollutant	Rule/Measure/Date						
		South Coast 1145 Plastic, Rubber, and Glass Coatings 02/14/97	Bay Area 8-31 Surface Coating of Plastic Parts and Products 12/20/95					
		Performance Standard						
Compound Exemption	VOC	includes any compound which contains carbon element, but excluding: methane carbon monoxide carbon dioxide carbonic acid metallic carbides carbonates ammonium carbonate and exempt compounds	includes any organic compound, but excluding: methane carbon monoxide carbon dioxide carbonic acid metallic acid carbonates ammonium carbonate methylene chloride 1,1,1 trichloroethane CFC-113 CFC-11 CFC-12 CFC-114 CFC-115 HCFC-22 HFC-23 acetone PCBTF VMS					

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General coatings One-component	VOC	x	275 g/L 2.3 lbs/gal		340 g/L 2.8 lbs/gal (assuming one- component)								
General Coatings Two-component	VOC	x	420 g/L 3.5 lbs/gal										
Military Spec. Coatings One-component	VOC	x	340 g/L 2.8 lbs/gal										
Military Spec. Coatings Two-component	VOC	x	420 g/L 3.5 lbs/gal	x	420 g/L 3.5 lbs/gal								
Multi-Colored Coatings	VOC		685 g/L 5.7 lbs/gal	x	450 g/L 3.8 lbs/gal								
Mold Seal Coatings	VOC	x	750 g/L 6.3 lbs/gal										
Vacuum Metalizing Coatings	VOC	x	800 g/L 6.7 lbs/gal										
Curtain Coated	VOC	x	500 g/L 4.2 lbs/gal										
Roll Coated	VOC	x	430 g/L 3.6 lbs/gal										

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Optical Coatings	VOC	x	800 g/L 6.7 lbs/gal	x	800 g/L 6.7 lbs/gal										
Electric Dissipating Coatings & Shock-Free Coatings	VOC		360 g/L 3.0 lbs/gal	x	325 g/L 2.7 lbs/gal										
Metallic Coatings	VOC	x	420 g/L 3.5 lbs/gal	x	420 g/L 3.5 lbs/gal										
Extreme Performance	VOC			x	750 g/L 6.2 lbs/gal, and usage is limited to 3785 liters(1000 gal) in any calendar year										
High Gloss	VOC			x	420 g/L 3.5 lbs/gal										
Flexible primer	VOC			x	490 g/L 4.1 lbs/gal										
Base coat/clear coat (combined system)	VOC			x	540 g/L 4.5 lbs/gal										

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Spray Application Equipment Limitations (Transfer Efficiency)	VOC		Operating in accordance to the manufacturer's specification, facility may use: 1. Electrostatic application 2. Flow coater 3. Roll coater 4. Dip coater 5. Hand application methods 6. High Volume, low- pressure (HVLP) spray, or 7. other coatings methods with 65% transfer efficiency with APCO & USEPA approval	x	With overall efficiency of 85%, facility shall use: 1. High Volume, Low Pressure (HVLP) spray 2. Electrostatic Spray 3. Detailing gun, or 4. APCO approved coating spray application with transfer efficiency of 85%			
Solvent Cleaning Operations	VOC	x	Pursuant to Rule 1171  Cleaning devices: -wipe cleaning -closed containers had held spray bottle without propellant		8-31-320 Solvent Evaporative Loss Minimization: 320.1 Shall use closed containers for storage or disposal of cloth or paper used for solvent			

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		-cleaning equipment which has a solvent container that can be, and is closed during cleaning operations, except when depositing and removing objects to be cleaned and is closed during non-operation with the exception of maintenance and repair to the cleaning equipment itself; -Non-atomized solvent flow method -Solvent flushing method -Remote Reservoir Cleaners Storage and disposal -All VOC-containing solvents, used in solvent cleaning operations, shall be stored in	surface preparation and cleanup 320.2 Shall use equipment for collecting the cleaning equipment compounds 320.3 Shall close containers of coatings, catalyst or solvent when not in use					
		non-absorbent, non- leaking containers which shall be kept						

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		closed at all times except when filling or emptying. It is recommended that cloth and paper moistened with VOC-containing solvents be stored in closed, non-absorbent, non-leaking containers. Control Equipment -a person may comply by using a VOC emission collected and control system in association with the solvent cleaning operation provided the emission control system shall collect at least 90%, by weight, of the emissions generated and have a destruction efficiency of at least 95%, by weight, or less than 50 ppm as carbon with no dilution							
Automotive Related	VOC	x	Group I vehicles are						

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Coatings		subject to limits in Table 1 of subgraph (c )(1)(A) of Rule 1151 Group II vehicles are subject to limits in Table 2 of subgraph (c ) (2)(B) of Rule 1151							
Air Pollution Control Equipment	VOC	x 1. Reduce VOC emissions at least 95% by weight, or the output concentration of VOC shall be < 50 ppm calculated as carbon with no dilution 2. Collects at least 90% by weight of VOC emissions							



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Alternative Emission Control	VOC	x	Compliance with paragraph (c )(2) - coating VOC limits or (4) - Automotive coating limit, may be achieved by means of Alternative Emission Control Plan pursuant to Rule 108 - Alternative Emission Control Plans								
Recordkeeping Requirements	VOC	x	Pursuant to Rule 109 - Recordkeeping For VOC Compound Emissions Records maintained for 2 years; method of application; amount and type of coating, adhesive; solvent; amount of diluent surface pre., solvent VOC content appropriate vapor pressure -Control equipment: continuous monitoring	x	8-31-501 Records: 501.1 Maintain current data: a. Coating catalyst and reducer used b. VOC content of coating 501.2 Weekly record of usage: 1. Coating & mix ratio of component b. Quality of each coating applied c. Identification of specialty coating limit category						

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		Performance Standard						
		records maintained for 2 years. -VOC content of coatings in lbs. VOC/lbs solid	d. Over temperature 501.3 Daily record of coating usage when air pollution abatement equipment is used 501.4 Monthly record of solvent usage 501.5 Records shall be retained for the previous 24-month period					

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Rule/Measure	Rule/Measure				
	SCAQMD 1145	BAAQMD 8-31			
<b>Exemptions</b>	1. Paragraph (c )(2) - emissions limitation shall not apply to: a. Touch-up and repair coatings b. Stencil coatings applied on clear or transparent substrates c. Clean or translucent coatings, except for those subject to paragraph (c )(4) automotive coating d. Coatings applied at a paint manufacturing facility while conducting performance tests on the coatings e. Any individual coatings used in volumes is <50 gallons in any one year, or the total usage of all such coatings is < 200 gallons per year per facility f. Reflective coating applied to highway cones g. Mask coatings - coatings that are < 0.5 mm thick (dried) and the area coated is less than 25 sq. inches, or if the area coated is > 25 sq. inches, then APCO's approval is required	Exemption:  8-31-114 Touch up operations 8-31-121 Stencil coatings 8-31-126 Translucent Coatings  8-31-120 Test panels to evaluate coating performance  8-31-123 Small User is exempt from 8-31-310 (Spray Application Equipment Limitations) where total amount of all coatings < 50 gallons/yr			

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	h. EMI/RFI shielding coatings i. Heparin-benzalkonium chloride (HBAC)-coatings applied to medical devices if total usage < 100 gallons per year per facility 2. Aerosol coating products	8-31-113 hand-held aerosol cans			

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	3. Paragraph (c )(5) - Transfer Efficiency, shall not apply to airbrush operations using < 5 gallons per year	8-31-110 Adhesives: exempt adhesives, which is covered under Rule 8-51 8-31-111 Low Usage Coatings - exempt from Sections 8-31-302, 306 and 309 if volumes used < 75.7 liters (20 gallons)/ year provided Section 8-31-403 Low Usage Coating Petition is met, but total coating is limited to 208.2 L (55 gal.)/yr 8-31-118 Automobile Assembly Coatings is exempt 8-31-119 Aerospace Assembly Coatings is exempt if the plastic aerospace components is subject to Rule 8-29			

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		8-31-122 Spray Application Equipment is exempt from 8-31-310 in following operations: 122.1 high solids, solvent-borne coatings with a solids content of 60% by volume to pre-textured or hair-cell surfaces subject to limits of Section 8-31-302 122.2 coatings to inner surface area of pipes 122.3 application of a textured finish coat 112.4 application of conductive coatings 8-31-125 Printed Circuit Boards is exempt but is subject to Rule 8-4			
<b>Applicability</b>	Coatings to any plastic, rubber or glass products; other applicability: any coating which is exempt from all or a portion of this rule shall comply with the provisions of Rule 442	Coating of plastic parts and products, including polyester resin (fiberglass) products			
<b>Comments</b>					